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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/701,825		11/05/2003	Hun-Jan Tao	N1085-00188 [TSMC2003-032	7051	
54657	7590	09/07/2005		EXAMINER		
DUANE M	ORRIS	LLP		CHEN, JACK S J		
IP DEPART	MENT (	TSMC)				
4200 ONE LIBERTY PLACE				ART UNIT	PAPER NUMBER	
PHILADEL	PHIA, P	A 19103-7396		2813		

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
Office Action Commence	10/701,825	TAO ET AL.						
Office Action Summary	Examiner	Art Unit						
	Jack Chen	2813						
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address -	•					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. ely filed the mailing date of this communica (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed on								
,— · · · · · · · · · · · · · · · · · · ·	action is non-final.							
3) Since this application is in condition for allowar		secution as to the merits	s is					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.								
	4a) Of the above claim(s) <u>4,7 and 8</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-3,5,6 and 9</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or	r election requirement.							
Application Papers	, .							
9) The specification is objected to by the Examine	r							
, <del></del>		- - - - -						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correct			21(d).					
11) The oath or declaration is objected to by the Ex								
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign	priority under 35 H S C & 110(a)	-(d) or (f)						
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 33 0.3.0. § 119(a)	-(d) or (i).						
1. ☐ Certified copies of the priority documents	s have been received							
2. Certified copies of the priority documents		on No						
3. ☐ Copies of the certified copies of the prior								
application from the International Bureau	· ·	a m ano manona. Otago						
* See the attached detailed Office action for a list of the certified copies not received.								
	•							
Attachment(s)	,, <b>—</b>	(8-8-110)						
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal P	atent Application (PTO-152)						
Paper No(s)/Mail Date <u>11/5/03</u> .	6) Other:							

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## **DETAILED ACTION**

1. Applicant's election without traverse of species combination of A-1 and B-3 in the reply filed on June 15, 2005 is acknowledged.

2. Claims 4 and 7-8 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim.

## Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-3, 5-6 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Re claim 1, line 3, the phrase "the bottom etch stop layer" lacks antecedent basis.

Changing to –the nitride-based bottom etch stop layer—is suggested.

Re claim 1, line 3, the phrase "high density, high radical" is unclear and indefinite (i.e., compare to what?).

Re claim 1, lines 3-4, the phrase "high radical concentration plasma containing fluorine and oxygen" is unclear (i.e., the plasma having both fluorine radical and/or oxygen radical?)

Re claim 2, the phrase "radical-to-ion ratio ... about 10:1" is unclear (i.e., fluorine and/or oxygen radical to oxygen and/or fluorine ion).

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack Chen whose telephone number is (571)272-1689. The examiner can normally be reached on Monday-Friday (9:00am-6:30pm) alternate Monday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead can be reached on (571)272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jack Chen

Primary Examiner

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September 6, 2005